



European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number

EP 02 29 2720

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A,D	SPALVIERI ET AL.: "Codes for the peak power constrained channel" IEEE GLOBAL TELECOMMUNICATIONS CONFERENCE, 14 - 16 November 1995, pages 639-643, XP000621561 New York, US * abstract *	1,5	H04L1/00 H04L27/34
A	DE GAUDENZI, LUISE: "Trellis-coded 16-QAM transmission over a nonlinear satellite channel" INTERNATIONAL CONFERENCE ON COMMUNICATIONS, 23 - 26 May 1993, pages 1723-1727, XP000448420 New York, US * abstract *	1,5	
A	GB 2 263 849 A (NORTHERN TELECOM) 4 August 1993 (1993-08-04) * page 3, line 22 - line 35 *	1,5	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H04L
The present search report has been drawn up for all claims			
1	Place of search	Date of completion of the search	Examiner
	THE HAGUE	7 March 2003	Scriven, P
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document			

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

07-03-2003

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
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			JP	6029954 A		04-02-1994
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## ABSTRACT / ZUSAMMENFASSUNG / ABREGE

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Disclosed is a method for controlling the peak power of a filtered signal in a single carrier data transmission system. The method comprises the steps of receiving a digital sequence (13) from a data source; generating a new digital sequence ( $\alpha(k)$ ) therefrom; filtering (34) the new digital sequence ( $\alpha(k)$ ) and producing a filtered digital sequence ( $y(k)$ ), characterized in that the step of generating a new digital sequence ( $\alpha(k)$ ) comprises the steps of: encoding data by an algebraic error correcting code (28); and performing a bit modification (30) by deliberately adding errors in such a way that the peak power of the filter signal affected by the deliberately introduced errors is lower than the peak power of the signal unaffected by errors. Disclosed is also a circuit for performing the method.